Analysis Documentation

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Project Name: Assignment 5  
Date Created: October 29, 2015

# Program Inputs

* employeeName- The employee’s name who is entering the inventory
* skuNum- Unique number that is used to identify each product. Must be alphanumeric and 5 characters long.
* productDescription- Description of the product being entered. Must be non-empty and no more than 20 characters.
* qtyOnHand – The amount of inventory on hand. Can’t be a negative number.
* costPerUnit- The cost per unit of the item. Must be greater than zero and no more than 5000.
* enterMore – Stores the response from the user if they want to continue.

# Processing

## Validation

* Check to see if employee name is valid. (Must contain a value)
* Check to see SKU is valid.
  + Must be 5 alphanumeric characters long
* Product Description
  + Must contain a value. Whitespace is considered an invalid input.
  + Must be less than or equal to 20 characters.
* Check to see if quantity on hand is a valid number
  + Must be zero or greater (cannot be negative)
* Check to see if unit Price is valid.
  + Must contain a value greater than zero but less than 5000.
* Check to see if the employee want to continue
  + Y – yes they want to continue
  + N- no they are finished and want to quit

## Accumulators and Other Formulas

* Count the number of items entered by the employee ( add one for every entry completed by the employee)
* Calculate the totalValue of the product counted by the employee
  + itmQty \* unitCost
* Add the totalValue to sumOfTotalValue

# Program Outputs

## Initial Message

* Print “Java Mart Inventory System”
* Print “-----------------------“

## Prompts for Input

* Print “Employee Name: “
* Print “Enter SKU number: “
* Print “Enter description: “
* Print “Enter quantity on hand: “
* Print “Enter unit cost: “
* Print “Enter another item? (y/n) : ”

## Error Messages

* Print “\*\*Error 01\*\* - You must enter your name”
* Print “\*\*Error 02\*\* - SKU number must be five characters
* Print “\*\*Error 03\*\* - Product description is required”
* Print “\*\*Error 04\*\* - Product description is more than 20 characters”
* Print “\*\*Error 05\*\* - Quantity on hand is a negative value”
* Print “\*\*Error 06\*\* - Unit cost must be a value between .01 – 5000.00”
* Print “\*\*Error\*\* - Invalid response

## End Report

* Print “Inventory Report”
* Print “-----------------------“
* Print “Inventory performed by: “ + employeeName
* Print “Number of products cocunted: “ + numCounted
* Print “Total Inventory Cost: $” + sumOfTotalValue

# Other Considerations

* none